

Abstract

Data Transmission Network

5 Data transmission network having a least one line termination
device (2) connected via a data transmission medium (7) to
several network termination devices (8), each network
termination device (8) comprising a request message generator
10 (33) for generating a data transmission request message when
a data communication device (9) connected to the network
termination device (8) is sending data, and an xDSL
transceiver (20) for transmitting an upstream data frame
including the generated request message via the data
transmission medium (7) to the line termination device (2),
15 said line termination device (2) comprising a selection unit
(66) for selecting network termination devices (8) which have
sent a request message depending on stored status information
data of the network termination devices (8), a grant message
generator (68) for generating data transmission grant
20 messages for the selected network termination devices (8),
and an xDSL transceiver (20) for broadcasting downstream data
frames including the generated grant messages via the data
transmission medium (7) to the network termination devices
(8).

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Fig. 2